

Form PTO-1449		U.S. Department of Commerce Patent and Trademark Office		Arty. Docket No. 60388-A-PCT- US/JPW/GJG/JBC		Serial No. 09/709,103								
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				Applicants: Mary Cismowski and Emir Duzic										
				Filing Date November 8, 2000		Group								
U.S. PATENT DOCUMENTS														
Examiner Initial	Document Number							Date	Name	Class	Subclass	Filing Date if Appropriate		
DS	4	6	1	3	5	7	2	9/23/86	MacKay et al. (Exhibit 1);					
DS	4	7	3	6	8	6	6	4/12/88	Leder et al. (Exhibit 2);					
DS	4	8	7	0	0	0	9	9/26/89	Evans et al. (Exhibit 3);					
DS	4	8	7	3	1	9	1	10/10/89	Wagner et al. (Exhibit 4);					
DS	4	8	7	3	3	1	6	10/10/89	Mcade et al. (Exhibit 5);					
DS	4	9	8	7	0	7	1	1/22/91	Cech et al. (Exhibit 6);					
DS	5	0	9	6	8	1	5	3/17/92	Ladner et al. (Exhibit 7);					
DS	5	1	1	6	7	4	2	5/26/92	Cech et al. (Exhibit 8);					
DS	5	2	2	3	4	0	9	6/29/93	Ladner et al. (Exhibit 9);					
DS	5	2	7	0	1	8	1	12/14/93	McCoy et al. (Exhibit 10);					
DS	5	2	8	3	3	1	7	2/1/94	Saifer et al. (Exhibit 11);					
DS	5	4	8	2	8	3	5	1/9/96	King et al. (Exhibit 12);					
FOREIGN PATENT DOCUMENTS														
	Document Number							Date	Country	Class	Subclass	Translation		
	Yes	No												
DS	WO	9	0	1	1	3	5	4	10/4/90	PCT (Exhibit 13);				
DS	WO	9	1	0	1	1	4	0	2/7/91	PCT (Exhibit 14);				
DS	WO	9	3	0	4	1	6	9	3/4/93	PCT (Exhibit 15);				
DS	WO	9	4	1	0	3	0	0	5/11/94	PCT (Exhibit 16);				
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)														
EXAMINER <i>Shull</i>								DATE CONSIDERED <i>2/11/03</i>						
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							Translation Yes No
		WO 9 4 1 3 8 0 2	6/23/94	PCT (Exhibit 17);			
		WO 9 4 2 3 0 2 5	10/13/94	PCT (Exhibit 18);			
		WO 9 9 1 8 2 1 1	4/15/99	PCT (Exhibit 19);			
		EP 0 2 6 4 1 6 6	4/9/87	EPO (Exhibit 20);			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
DS		Alton and Vapnek, (1979) "Nucleotide Sequence Analysis of The Chloramphenicol Resistance Transposon Tn9", <u>Nature</u> 282: 864-869 (Exhibit 21);					
DS		Amann et al., (1988) "Tightly Regulated Tac Promoter Vectors Useful For The Expression of Unfused and Fused Proteins In Escherichia Coli", <u>Gene</u> 69:301-315 (Exhibit 22);					
DS		Appeltauer and Achstetter, (1989) "Hormone-induced Expression of The CHS1 Gene From Saccharomyces cerevisiae", <u>European Journal of Biochemistry</u> 181:243-247 (Exhibit 23);					
DS		Arkin and Youvan, (1992) "An Algorithm For Protein Engineering: Simulations of Recursive Ensemble Mutagenesis", <u>Proceedings of The Natural Academy of Sciences</u> 89:7811-7815 (Exhibit 24);					
DS		Baldari, et al., (1987) "A Novel Leader Peptide Which Allows Efficient Secretion of a Fragment of Human Interleukin 1 β in Saccharomyces cerevisiae", <u>The EMBO Journal</u> 6:229-234 (Exhibit 25);					
DS		Banerji, J. et al., (1983) "A Lymphocyte-Specific Cellular Enhancer Is Located Downstream of the Joining Region in Immunoglobulin Heavy Chain Genes", <u>Cell</u> 33:729-740 (Exhibit 26);					
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DS		Barbas et al., (1992) "Semisynthetic Combinatorial Antibody Libraries: A Chemical Solution to the Diversity Problem", <u>Proceedings of The National Academy Sciences</u> 89:4457-4461 (Exhibit 27);					
DS		Bardwell et al., (1994) "Signal Propagation and Regulation in the Mating Pheromone Response Pathway of the Yeast <i>Saccharomyces cerevisiae</i> ", <u>Developmental Biology</u> 166:363-379 (Exhibit 28)					
DS		Bartel et al., (1993) "Elimination of False Positives That Arise in Using the Two-Hybrid System", <u>Biotechniques</u> , 14: 920-924 (Exhibit 29);					
DS		Bartel, D.P. and Szostak, J.W., (1993) "Isolation of New Ribozymes from a Large Pool of Random Sequences", <u>Science</u> 261:1411-1418 (Exhibit 30);					
DS		Berman and Gilman, (1998) "Mammalian RGS Proteins: Barbarians at The Gate", <u>The Journal of Biological Chemistry</u> 273: 1269-1272 (Exhibit 31);					
DS		Bourne et al., (1991) "The GTPase superfamily: Conserved Structure and Molecular Mechanism", <u>Nature</u> 349: 117-127 (Exhibit 32);					
DS		Bradley, A., (1987) "Production And Analysis of Chimaeric Mice", <u>Teratocarcinomas and Embryonic Stem Cells: A Practical Approach</u> pp. 113-151 (Exhibit 33);					
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DS		Nobes et al., (1998) "A New Member of the Rho Family, Rnd1, Promotes Disassembly of Actin Filament Structures and Loss of Cell Adhesion", <u>The Journal of Cell Biology</u> 141: 187-197 (Exhibit 82);					
DS		Odagaki et al., (1998) "Receptor-mediated and Receptor-independent Activation of G-proteins in Rat Brain Membranes" <u>Life Sciences</u> 62: 1537-1541 (Exhibit 83);					
DS		O'Gorman et al., (1991) "Recombinase-Mediated Gene Activation and Site-Specific Integration in Mammalian Cells", <u>Science</u> 251:1351-1355 (Exhibit 84);					
DS		Okamoto et al., (1995) "Ligand-dependent G Protein Coupling Function of Amyloid Transmembrane Precursor" <u>The Journal of Biological Chemistry</u> 270: 4205-4208 (Exhibit 85);					
DS		Pinkert et al., (1987) "An Albumin Enhancer Located 10 kb Upstream Functions Along With Its Promoter to Direct Efficient, Liver-specific Expression in Transgenic Mice", <u>Genes and Development</u> 1:268-276 (Exhibit 86);					
DS		Queen and Baltimore, (1983) "Immunoglobulin Gene Transcription Is Activated by Downstream Sequence Elements", <u>Cell</u> 33:741-748 (Exhibit 87);					
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<i>DS</i>	Thomas, K.R. and Capecechi, M. R., (1987) "Site-Directed Mutagenesis by Gene Targeting in Mouse Embryo-Derived Stem Cells", <u>Cell</u> 51:503-512 (Exhibit 105);												
<i>DS</i>	Toh et al., (1989) "Isolation and Characterization of a Rat Liver Alkaline Phosphatase Gene", <u>European Journal of Biochemistry</u> 182: 231-237 (Exhibit 106);												
<i>DS</i>	Valencia et al., (1991) "The ras Protein Family: Evolutionary Tree and Role of Conserved Amino Acids", <u>Biochemistry</u> 30: 4637-4648 (Exhibit 107);												
<i>DS</i>	Wada et al., (1992) "Codon Usage Tabulated from the GenBank Genetic Sequence Data", <u>Nucleic Acids Research</u> 20:2111-2118 (Exhibit 108);												
<i>DS</i>	Whitney et al., (1998) "A Genome-wide Functional Assay of Signal Transduction in Living Mammalian Cells", <u>Nature Biotechnology</u> 16: 1329-1333 (Exhibit 109);												
<i>DS</i>	Wilmut, I. et al., (1997) "Viable Offspring derived from Fetal and Adult Mammalian Cells", <u>Nature</u> 385:810-813 (Exhibit 110);												
EXAMINER <i>D Sullivan</i>		DATE CONSIDERED <i>2/12/03</i>											
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PS	5 6 5 4 1 4 5	8/5/97	Fukuda (Exhibit 114);			
	0 9 4 3 9 4 0	11/11/99	Cismowski et al. (Exhibit 120);			

Not a
US Patent
No.

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

PS	Winoto and Baltimore, (1989) "A Novel, Inducible and T Cell-specific Enhancer Located at the 3' End of the T Cell Receptor α Locus" <u>The EMBO Journal</u> 8:729-733 (Exhibit 111);
PS	Zervos et al., (1993) "Mx1, a Protein That Specifically Interacts with Max to Bind Myc-Max Recognition Sites", <u>Cell</u> 72: 223-232 (Exhibit 112);
PS	International Search Report for PCT International Application No. PCT/US99/10151, filed July 5, 1999 (Exhibit 113);
PS	Chiu et al., (1998) "Optimizing Energy Potentials for Success in Protein Tertiary Structure Prediction", <u>Folding and Design</u> 3:223-228 (Exhibit 115);
PS	Ngo et al., (1994) "Computational Complexity, Protein Structure Prediction, and the Levinthal Paradox", <u>The Protein Folding Problem and Tertiary Structure Prediction</u> pp. 492-494 (Exhibit 116);
PS	Verma et al., (1997) "Gene Therapy - Promises, Problems and Prospects", <u>Nature</u> 389:239-242 (Exhibit 117);
PS	Anderson (1998) "Human Gene Therapy", <u>Nature</u> 392:25-30 (Exhibit 118);
PS	Mountain (2000) "Gene Therapy: The First Decade", <u>TIBTECH</u> 18:119-128 (Exhibit 119).

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